

EENS Job Risk Assessment

Name(s) of Risk Team Members: J. Boccio, J. Adams, C. Dodge, J. Saccheri, L. Fishbone, M. Fuhrmann, P. Northrup, N. Contos	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Working with Dispersible Radioactive Materials Job Number or Job Identifier: EENS-JRA-022 JRA Date:	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Radioactive Dispersible Use	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): RWT-002, RWT-500, SBMS SA	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by: Date: 12/14/05 Rev. #: Draft						
Stressors (if applicable, please list all): none		Reason for Revision (if applicable):			Comments:	

				Before Additional Controls							After Additional Controls							
Job Step / Task	Hazard	Control(s)		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction

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Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Using dispersible radioactive materials	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, labeling, shielding, PPE	N	2	3	1	2	12								
Using dispersible radioactive materials	Radioactive contamination from dispersed materials	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, PPE, calibrated instruments, ALARA Coordinator, Administrative Control Levels, containments, fume hoods, glove boxes, physical areas/boundaries, radiological surveys, labeling, hood face velocity tests, personnel monitoring	N	2	3	3	2	36								

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Job Step / Task	Hazard	Control(s)	Before Additional Controls						Control(s) Added to Reduce Risk	After Additional Controls						% Risk Reduction
			Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	
Preparing & handling unsealed sources, eg. foils, electrodeposited materials, sources with layers of containment such as Kapton tape	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, labeling, shielding, PPE	N	1	2	1	2	4								
Preparing & handling unsealed sources, eg. foils, electrodeposited materials, sources with layers of containment such as Kapton tape	Radioactive contamination from dispersed materials	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, PPE, calibrated instruments, ALARA Coordinator, Administrative Control Levels, containments, fume hoods, glove boxes, physical areas/boundaries, radiological surveys, decontaminate as needed, minimize size of work area, labeling, hood face velocity tests, personnel monitoring	N	1	2	1	2	4								

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Transporting radioactive materials within a building or lab	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, labeling	N	1	3	2	4	24								
Transporting radioactive materials within a building or lab	Radioactive contamination from dispersed materials, loss of material control, spills	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, secondary containment for liquids/powders, labeling	N	1	3	2	4	24								

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Transporting radioactive materials to another building on site	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, labeling, government vehicle, FS notifications, Hazardous Material Transportation Safety SBMS SA	N	1	2	3	3	18								
Transporting radioactive materials to another building on site	Radioactive contamination from dispersed materials, loss of material control, spills	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, labeling, secondary containment for liquids/powders, government vehicle, FS notifications, Hazardous Material Transportation Safety SBMS	N	1	2	3	3	18								

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Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Working with Accountable Nuclear Materials	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, review & inventory by I&SM, Material Balance Area defined & custodian appointed, proper storage, labeling, criticality review as required, shielding, PPE	N	1	2	2	2	8								
Working with Accountable Nuclear Materials	Radioactive contamination from dispersed materials	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, PPE, calibrated instruments, ALARA Coordinator, Administrative Control Levels, containments, fume hoods, glove boxes, physical areas/boundaries, radiological surveys, labeling, hood face velocity tests, personnel monitoring	N	1	2	3	2	12								

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Further Description of Controls Added to Reduce Risk:																			
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate	61 to 80 Substantial					81 or greater Intolerable										